CLAIMS

[1] An ultrasonic probe comprising: an ultrasonic transducing part for transmitting and receiving an ultrasonic wave; an outer case for storing the ultrasonic transducing part; and an acoustic medium charged in the outer case, wherein the acoustic medium contains 1,2–butylene glycol.

[2] The ultrasonic probe according to claim 1, wherein the acoustic medium is formed of only 1,2–butylene glycol.

[3] The ultrasonic probe according to claim 1, wherein the acoustic medium further contains at least one material that is soluble in 1,2–butylene glycol and a liquid at a temperature of 10°C to 40°C.

[4] The ultrasonic probe according to claim 3, wherein the material is at least one selected from the group consisting of ethylene glycol, 1,3–butylene glycol, and water.

[5] The ultrasonic probe according to claim 4, wherein the material is 1,3–butylene glycol.

[6] The ultrasonic probe according to claim 1, wherein the acoustic medium contains 25 to 100 wt% of 1,2–butylene glycol.

[7] The ultrasonic probe according to claim 1, wherein the acoustic medium has an acoustic impedance of 1.45 to 1.517 MRayl at a temperature of 20°C, and produces an ultrasonic attenuation of 0.07 to 0.091 dB/mm at a frequency of 3 MHz.

[8] The ultrasonic probe according to claim 1, comprising a mechanism for oscillating or rotating the ultrasonic transducing part.

[9] The ultrasonic probe according to claim 1, wherein the ultrasonic transducing part includes an array element in which a plurality of transducers are arranged.